

Carbon black, method for the production thereof, and use thereof

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Abstract

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The invention relates to carbon black having a C-14 content greater than 0.05 Bq/g and a ratio $\Delta D_{50}/D_{mode}$ of the aggregate size distribution of less than 0.7. The carbon black is produced by thermal oxidative pyrolysis or thermal cleavage of the carbon black raw material in that the carbon black raw material contains renewable carbon black raw materials and an oxygen deficiency is present in the pyrolysis/cleavage reaction. The carbon blacks can be used in rubber and rubber mixtures, plastic, printing inks, inks, inkjet inks, toners, lacquers, paints, paper, adhesives, batteries, pastes, bitumens, concrete, and other building materials and as reducing agents in metallurgy.

Fig. 1